
VIDEO TUTORIAL

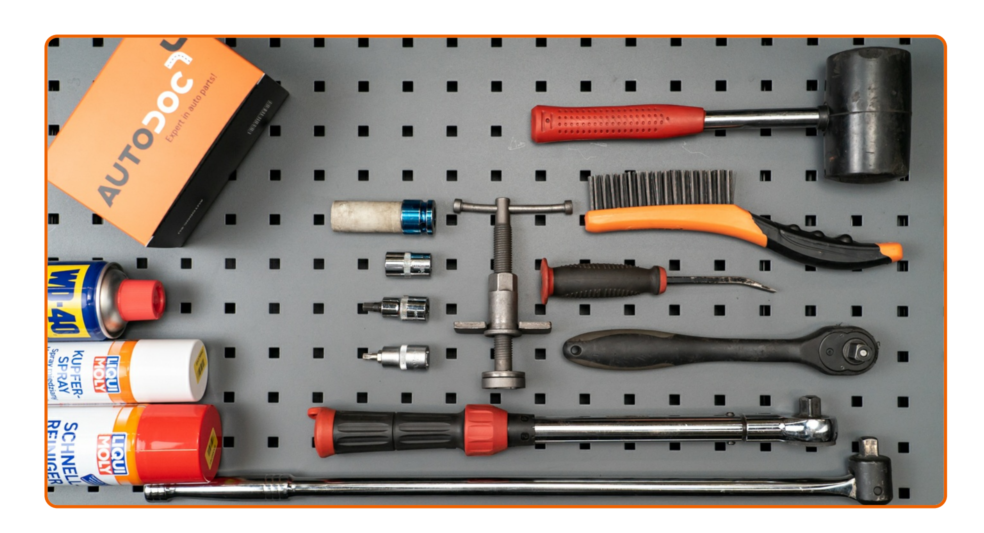
Important!

This replacement procedure can be used for:
MINI MINI (R50, R53) Cooper, MINI MINI (R50, R53) One, MINI MINI Convertible (R52) Cooper, MINI MINI Convertible (R52) One

---

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – MINI R50, R53. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- HEX bit No.H7.
- Torx bit T30
- Drive socket # 16
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Rubber mallet
- Brake caliper wind back tool
- Crow bar
- Wheel chock

Replacement: brake discs – Mini R50, R53. Tip from AUTODOC:

- Replace the brake disks on the car Mini R50, R53 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – Mini R50, R53 – should be done with the engine switched off.

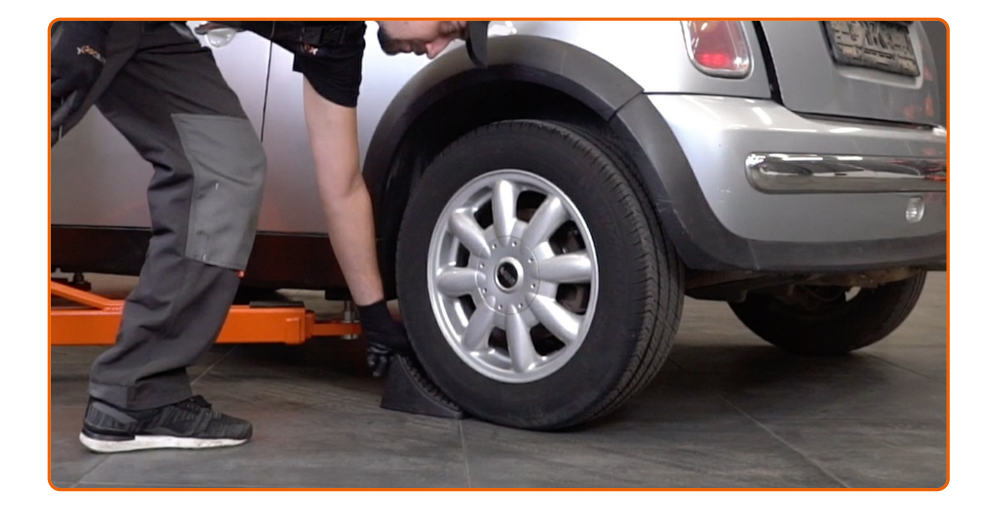
CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1



Open the bonnet. Unscrew the brake fluid reservoir cap.

2



Secure the wheels with chocks.

3



Loosen the wheel mounting bolts. Use wheel impact socket #17.

4



Raise the rear of the car and secure on supports.

5

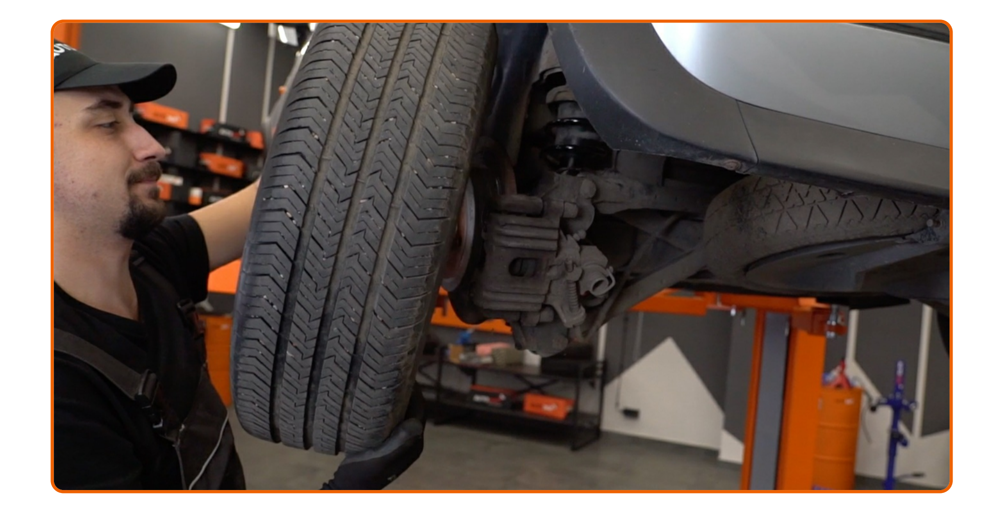


Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Mini R50, R53

6



Remove the wheel.

7



Spread the brake pads. Use a crowbar.

8



Remove the dust boot caps of the brake caliper guide pins.

9



Detach the brake caliper retaining spring. Use a crowbar.

10



Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.

11

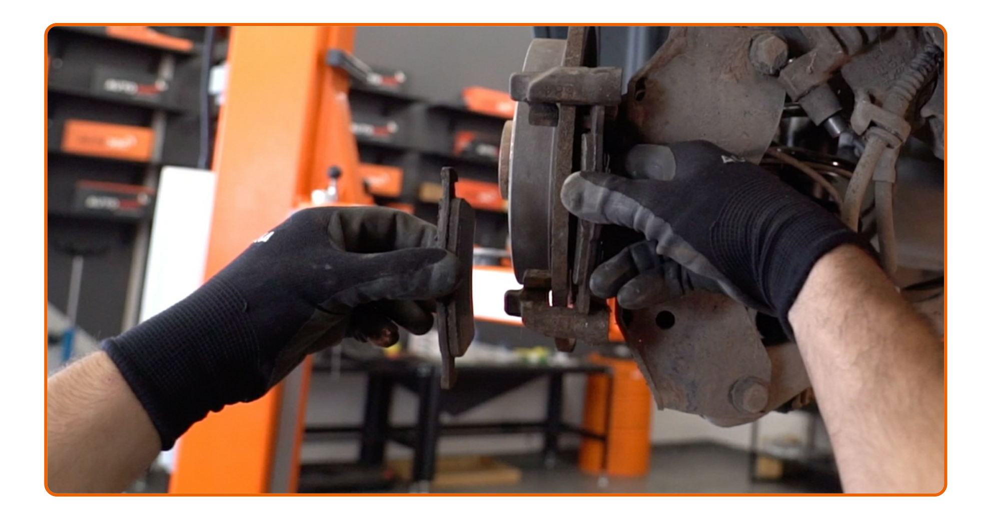


Remove the brake caliper. Use a crowbar.

Replacement: brake discs – Mini R50, R53. AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

12



Remove the brake pads.

13



Clean the brake caliper bracket fasteners. Use WD-40 spray.

14



Unscrew the caliper bracket fastening. Use a drive socket #16. Use a ratchet wrench.



15



Remove the caliper bracket.

16

Unscrew the brake disc mounting bolts and remove it. Use Torx T30.

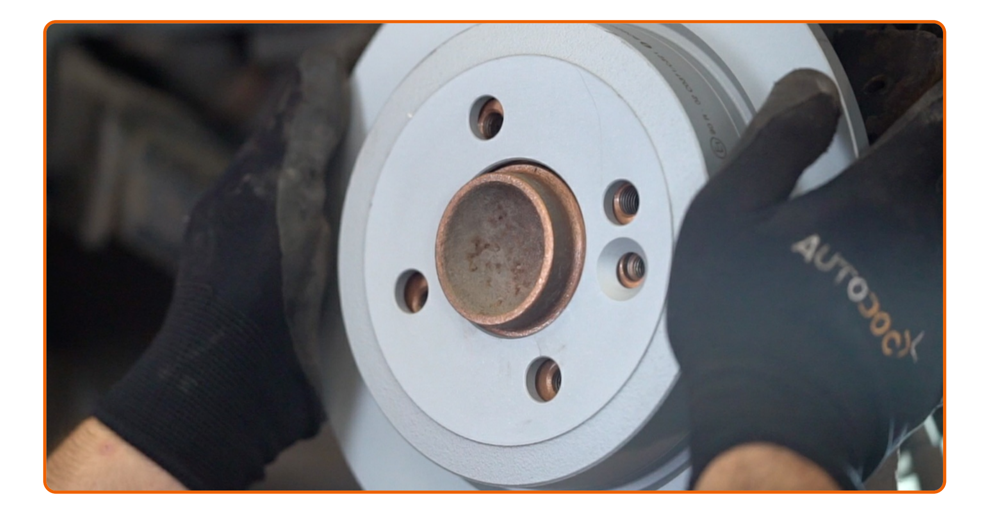
Replacement: brake discs – Mini R50, R53. Tip:

- If necessary, use a rubber mallet.

17

Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.

18



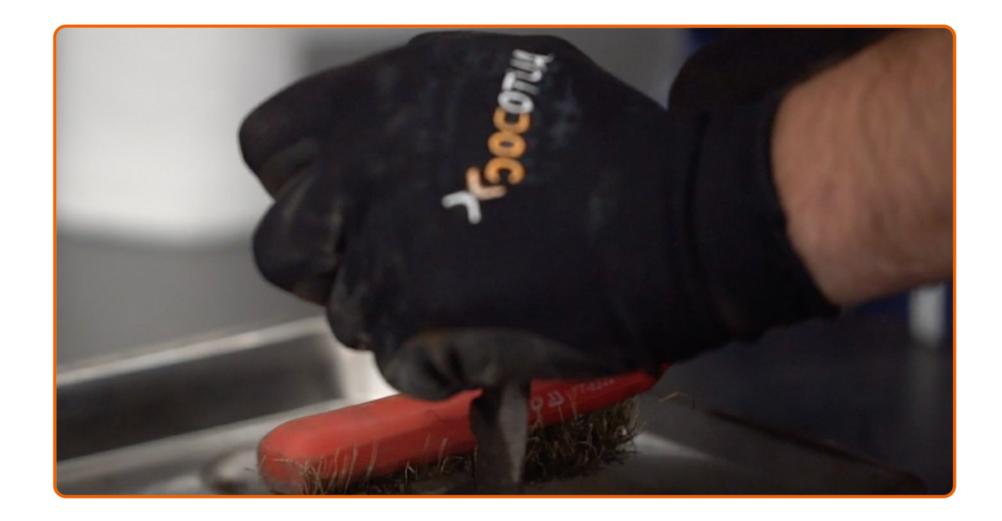
Install the brake disc.

19



Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 9 Nm torque.

20



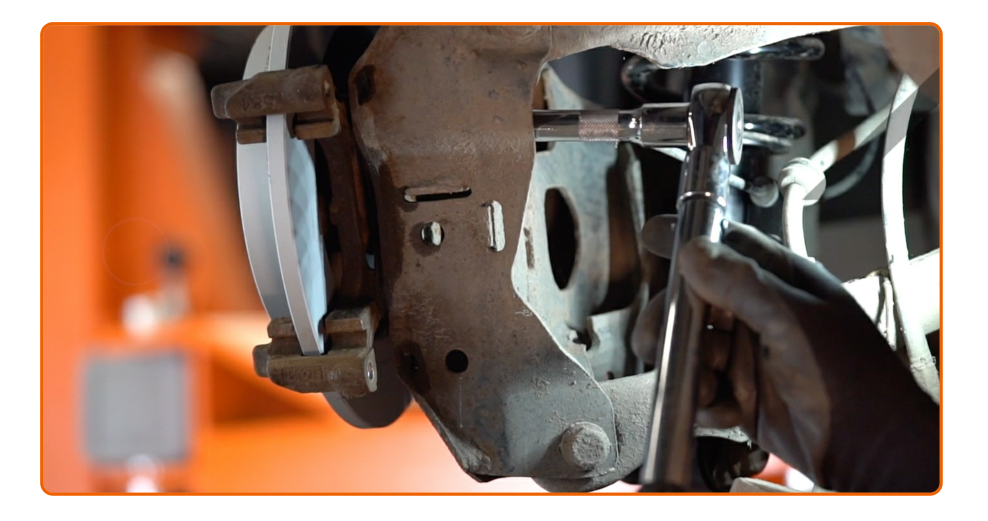
Clean the brake caliper bracket from dirt and dust. Use a wire brush.

21



Install the brake caliper bracket.

22



Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 65 Nm torque.

23



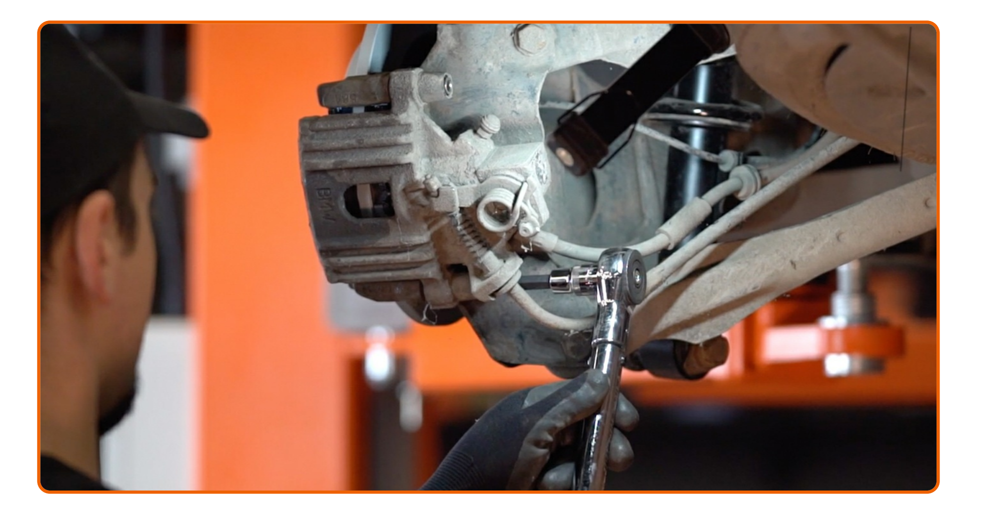
Press in the brake caliper piston. Use brake caliper wind back tool.

24



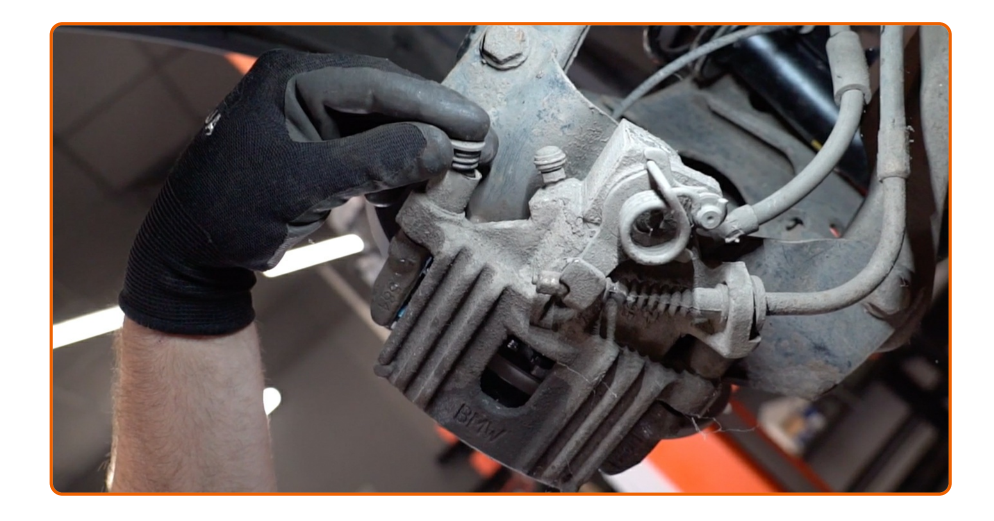
Install the brake pads.

25



Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.

26



Install the dust boot caps of the brake caliper guide pins.

27

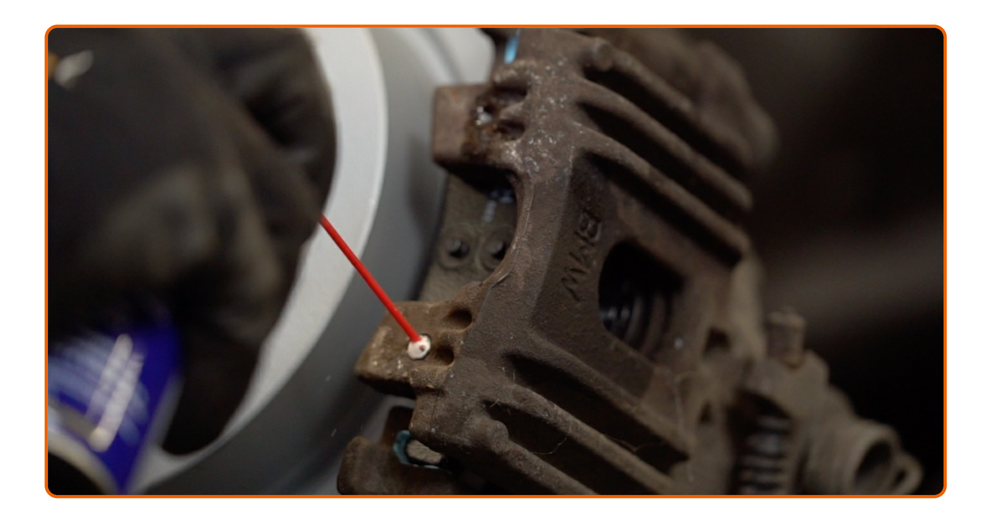


Remove anti-corrosion grease from the new brake disk. Use a brake cleaner.

Replacement: brake discs – Mini R50, R53. AUTODOC experts recommend:

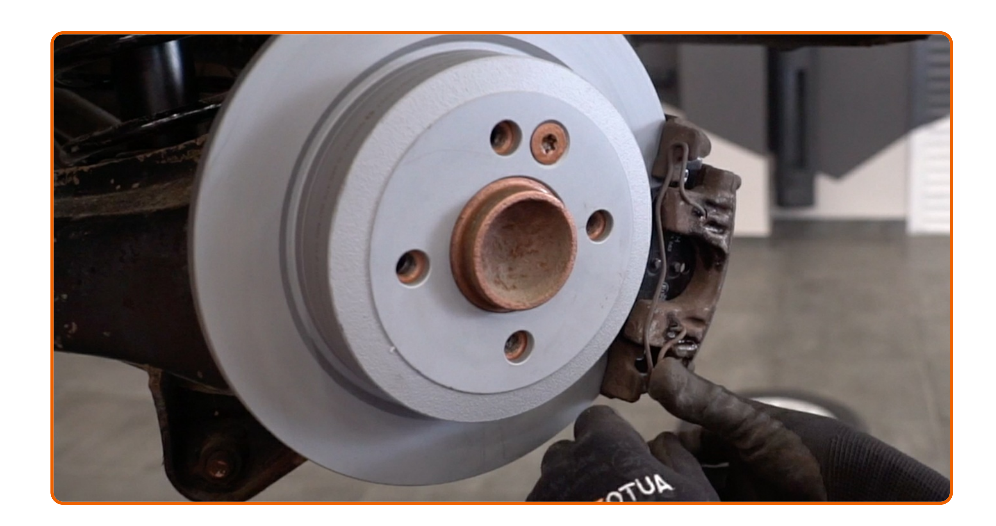
- After applying the spray, wait a few minutes.

28



Treat the mounting seat of the brake caliper retaining spring. Use WD-40 spray.

29



Install the brake caliper retaining spring.

AUTODOC recommends:

- Mini R50, R53 – Press the brake pedal several times with the engine shut down until you feel the resistance built up.

30



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

31



Install the wheel.

AUTODOC recommends:

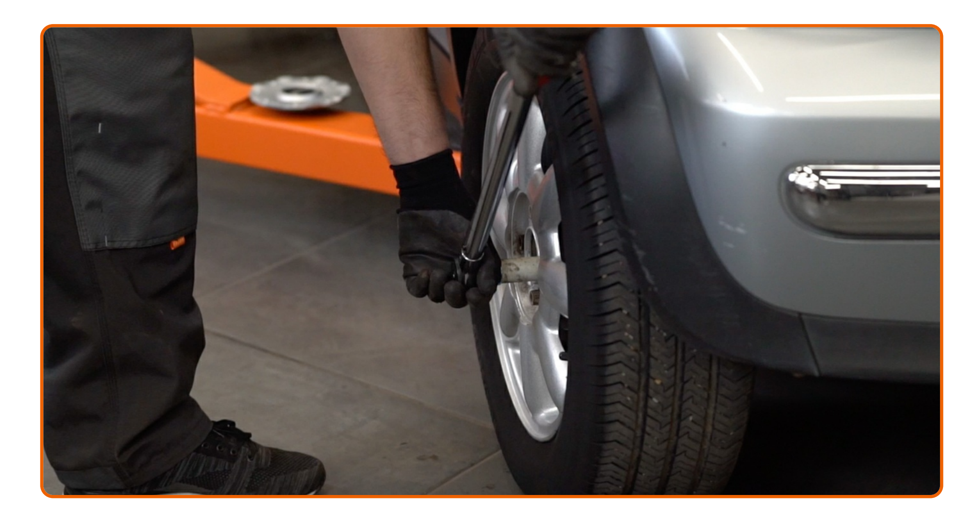
- Important! Hold the wheel while screwing in the fastening bolts. Mini R50, R53

32



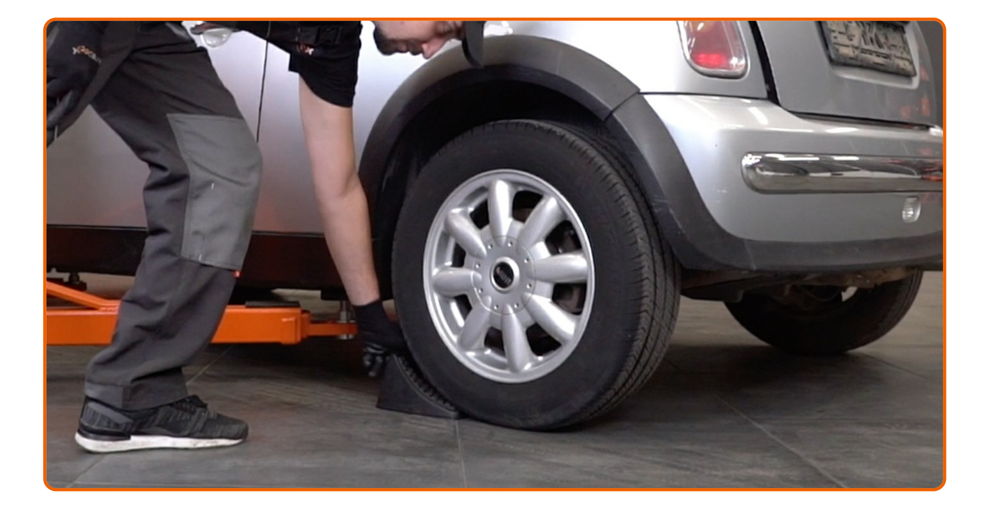
Screw in the wheel bolts. Use wheel impact socket #17.

33



Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 110 Nm torque.

34



Remove the jacks and chocks.

Replacement: brake discs – Mini R50, R53. Tip from AUTODOC experts:

- Check the brake fluid level in the expansion tank and refill if necessary.

35



Tighten the brake fluid reservoir cap. Close the hood.



DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

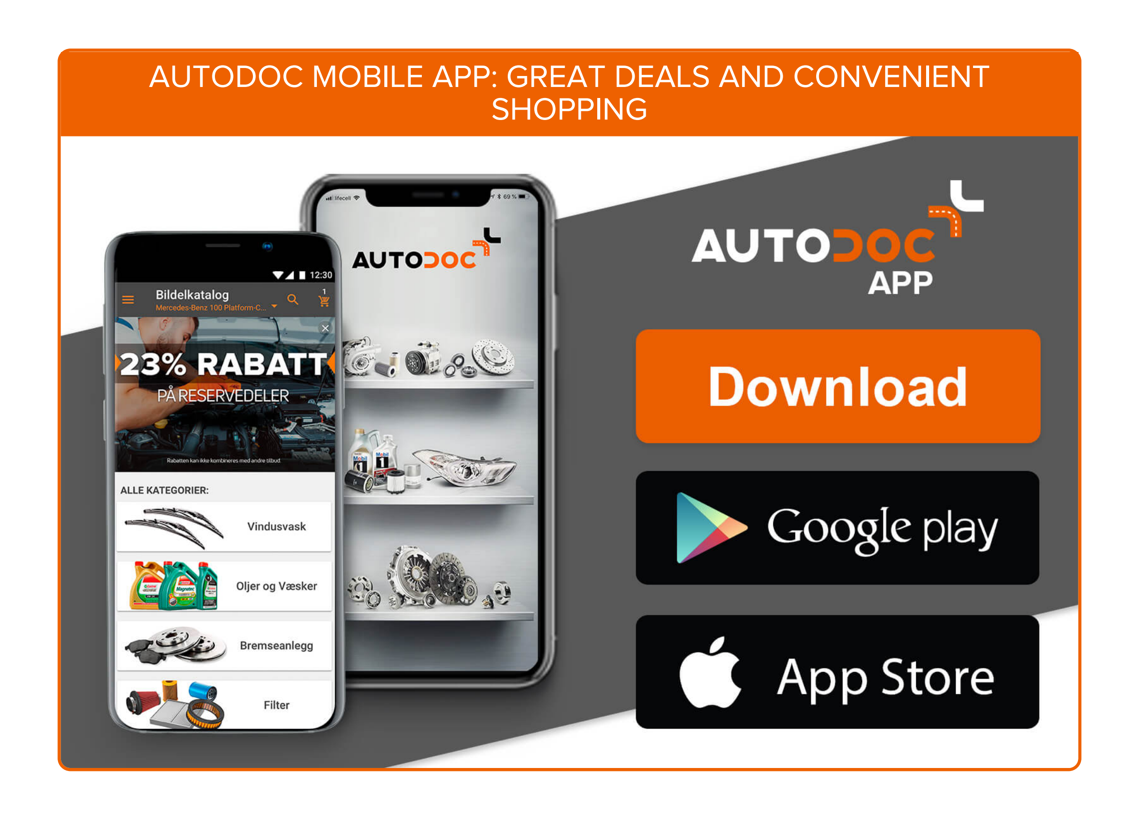
NO



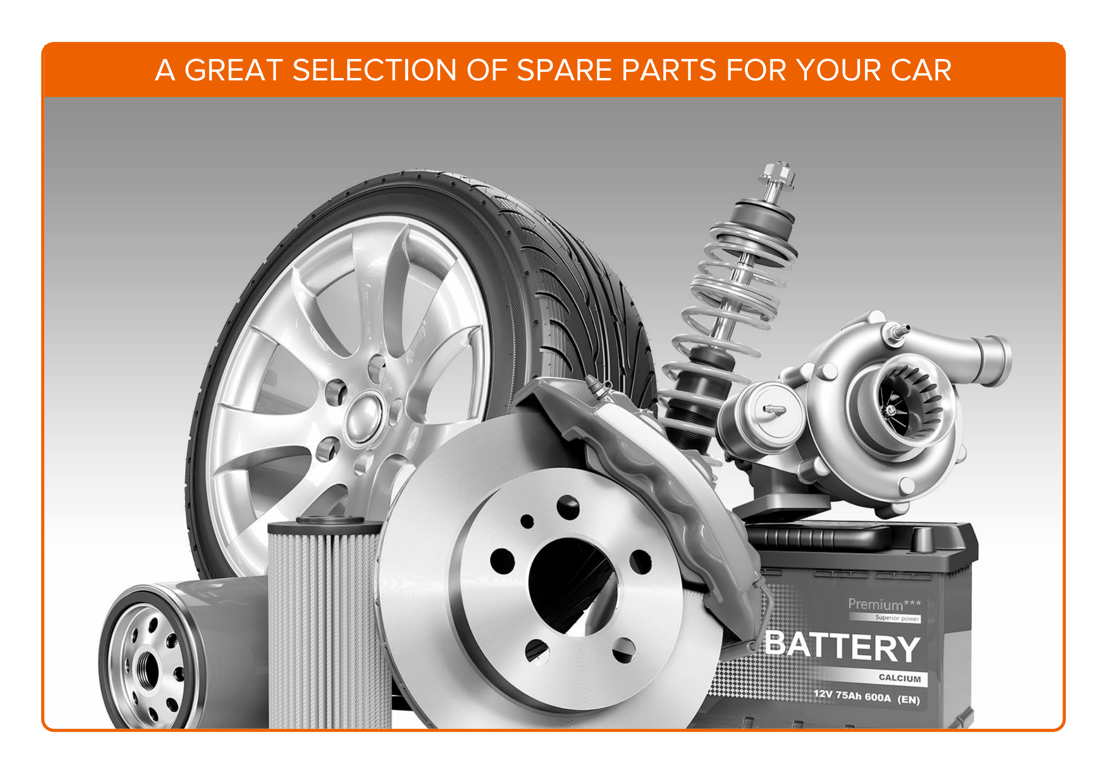
BECOME A MEMBER OF AUTODOC CLUB!

AUTODOC — TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING



A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR






BUY SPARE PARTS FOR MINI


BRAKE DISCS: A WIDE SELECTION


AUTODOC


CHOOSE CAR PARTS FOR MINI R50, R53
MINI


BRAKE DISCS FOR MINI: BUY NOW
MINI



Disclaimer:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AutoDoc shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AutoDoc shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AutoDoc shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AutoDoc strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.